

Evidence Guide

Unit 4647: Explain principles of fire science Level 2 Credit 1 Version 5

This document can be used by learners and assessors, and provides an outline of the requirements of the unit standard, and what would be expected to be assessed.

- It provides a guide for the collection of evidence to meet the requirements of 4647. It is not the assessment
- As an assessor it is essential that you are familiar with the unit standard
- Learners should only take this assessment when they feel they have had adequate time to prepare, and feel confident in their ability to meet the requirements
- While this resource describes the evidence that is required to meet the requirements of 4647, there may be other methods for gaining the required evidence, e.g. oral discussions, attestations, logbooks, observations from actual events, or simulated training. Any records and/or relevant information should be given to the assessor prior to the assessment, for their consideration. If evidence is gained from other sources it should be attached to the assessment
- This unit standard carries a credit value of 1, which means that without any prior knowledge or experience, it will require approximately 10 hours of learning, practice, and assessment in order to be fully familiar with the requirements involved
- If at the time of assessment there is a difference in views between the assessor and learner with regard to the assessor's decision, this should be discussed between the assessor and learner. Further information regarding the appeals procedure is provided on the FRSITO website www.frsito.org.nz.

Entry information:

- Open



Special Notes

- Compliance with the fire and rescue service provider's Health and Safety policy and procedures is mandatory
- Definition
Fire and rescue service provider's requirements refer to policies and procedures on safety and operation set down by each fire and rescue service employer or host organisation.

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EVIDENCE CRITERIA

Principles of fire science

The following are identified or described:

- The fire triangle
- The chemical chain reaction
- Methods for extinguishing fires (cooling, smothering, removal of fuel, starving, interruption of the chemical chain reaction)
- At least one practical example of how heat and fire travel - convection, conduction, radiation, direct burning and ember transport
- Upper and lower explosive limits of flammable gases in the air
- Fire terms - flashpoint, ignition temperature, spontaneous combustion, miscibility, combustion